

Head Tracked Vision System



VENDOR DESCRIPTION

Date Revised: 18 DEC 03

High-speed gimbal-mounted sensor suite. Current sensor payload consists of an uncooled FLIR and fully gated IICCD (day/night). Optional sensors include CMOS and day cameras. 10" and 7" gimbals have been built and tested. 4" and 2" are being evaluated. Sensor suite is part of the Drivers Head Tracked Vision System developed to provide 360° azimuth and 90° look-up field of regard. System includes fully adjustable additive fusion, SXGA helmet-mounted displays and opto-inertial head tracking.



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Business Category: Large Business

EOIR

Hardware		Gimbal
RF Frequency: IR 8-14 micron / I2 400-900nm	Operating Temp.: -20°C to +49°C	Ht: 10.5 in Dia: 7 in Wt: 15 lbs
Power: 24V @ 0.65A Nominal	Storage Temp.: -32°C to 70°C	Stabilization: No
Weight: 15 lbs	Cooling: Ambient air	Pointing Accuracy: 0.25°
Dimensions: 10.5" H x 7" Dia.	Interface: RS-232	Azimuth Range: 360°
LOS Stabilization: Not stabilized	Maintainability: 2-level BIT to LRU level	Elevation Range: ±90°
Auto Video Tracker: Head tracked or joystick		Power: 20W contin., 8A peak @ 500ms
Operating Altitude: Not altitude limited		Slew Rate Azimuth: 200°/sec
Operating Speed: Not speed limited		Slew Rate Elevation: 200°/sec

Electro-Optical (EO)	Infrared (IR)
Type: Fully gated IICCD	Type: Bolometer
Resolution: 768 x 488	Resolution: 320 x 240
Range: 300 meters	Range: 300 meters
Band Coverage: 450 to 900 nm	Band Coverage: 8 to 12 um
Zoom Rate: N/A	Cooling Method: Uncooled
Modes of Operation: Day/Night	Modes of Operation: Black/White Hot
Target Size: APC	Target Size: Man-Target
Field of View: 30°(V)x40°(H)	Field of View: 30°(V) x 40°(H)
Sensitivity: 10(-6) Lux	NEdT: 64 to 75mK, typ.
Color or B/W: B/W	